

Quantum 60 W Power Supply

Wet/damp/dry-rated power supply

12 VDC **24 VDC**

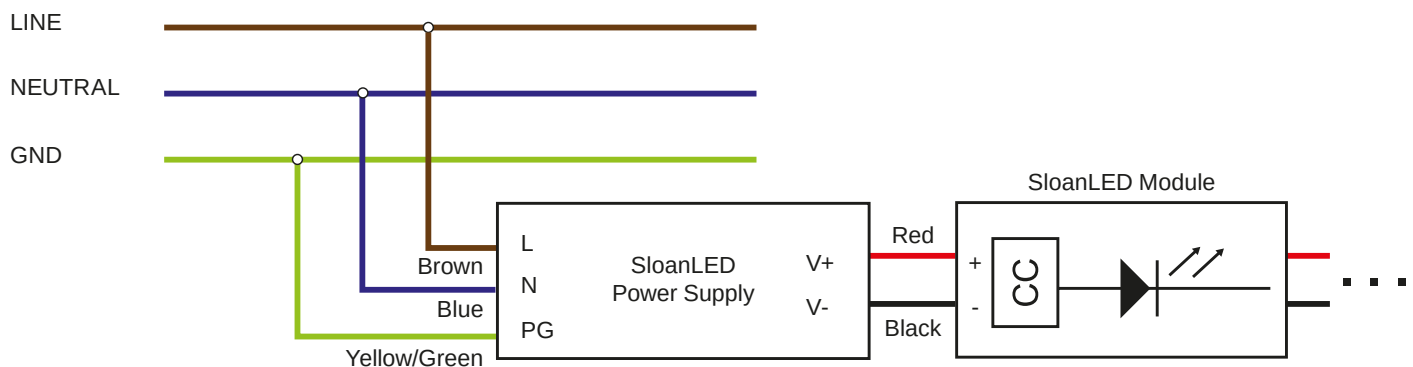
701895-60E1



701507-60E1

- European input voltage – 200 - 240 VAC, 50-60Hz
- Constant voltage output: 12 VDC (701507-60E1), 24 VDC (701895-60E1)
- Auto-resetting – No fuses to replace or circuit breaker to reset – Short circuit protection automatically resets when short condition is corrected
- Approved by ENEC
- Approved CE by Third Party Test Lab
- Simple secondary hook-ups – No minimum load or load balancing required
- 5-year product and limited labor warranty
- Rugged and compact

Wiring diagram



In the end application, the maximum case temperature (T_c) shall not be exceeded 90° C.

The product is intended for IP68 environment.



Quantum 60 W, 12 V (701507-60E1)



Quantum 60 W, 24 V (701895-60E1)



Wet/damp/dry-rated power supply

12
VDC

24
VDC

Specifications

Part number..... **12 VDC**701507-60E1
24 VDC701895-60E1

INPUT

Rated input voltage	200-240 VAC
Max. input voltage	180-264 VAC
Frequency	50 Hz
Rated input current	0.5 A max.
Inrush current	50 A max. @ 240 VAC, 50 Hz
Efficiency	>88% @ 240 VAC (full-load)
Power factor	>0.95 @ 240 VAC (full-load) >0.90 @ 240 VAC (65% load)
THD	<20% @ 120-277 VAC (full-load) <20% @ 277 VAC (65% load)

OUTPUT

Rated output voltage	12 VDC (701507-60E1), 24 VDC (701895-60E1)
Rated output current	12 VDC 5 ADC
	24 VDC 2.5 ADC
Max. output power	60 W
Line regulation	< 1%
Load regulation	< 3%

PROTECTION

Over current Yes, auto-recovery

Over temperature Yes, 100° C to 110° C case, auto-recovery

Short circuit Yes, auto-recovery

Surge immunity Line – Earth → 4 kV
Line – Neutral → 2 kV

ENVIRONMENT

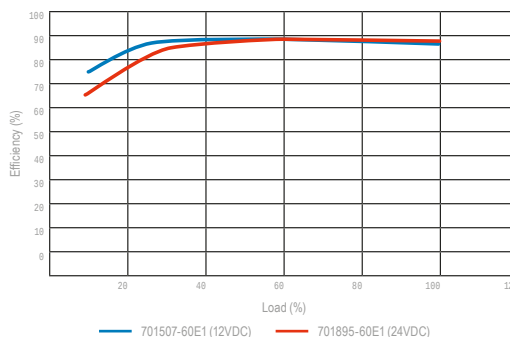
Operating ambient temp......-40° C to +60° C, derated up to 70° C with 50% of load
Maximum case temp......90° C
Storage temp......-40° C to +85° C
IP ratingIP68
Lifetime.....25,000 hours @ +60° C ambient with 100 % load

COMPLIANCE

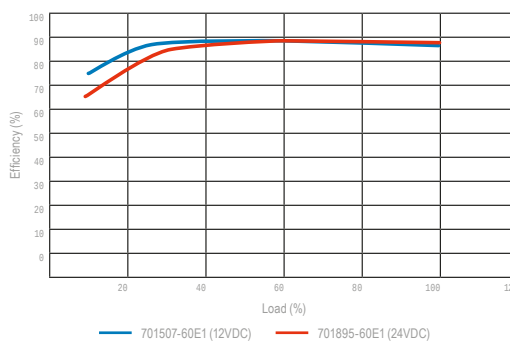
Safety standard	CE (EN61347-2-13:2014; EN61347-1:2008)
EMI standard	EN55015
Harmonic current emission	IEC/EN61000-3-2 Class C
Surge	IEC/EN61000-4-5

Efficiency

Vin: 200 VAC



Vin: 240 VAC



Wire Gauge Distance Chart for Power Limited Tray Cable (PLTC)

When the distance increases between the secondary side of the power supply and the first LED in a letter or the beginning of a tubing run, the gauge or wire needed will change as follows:

Distance from power supply	Wire gauge
0 m to 4.6 m	1 mm ² (18)
4.6 m to 15.2 m	2.5 mm ² (14)
15.2 m to 30.5 m	4 mm ² (12)
30.5 m to 45.7 m	6 mm ² (10)

Power supply output lead length.....305 mm

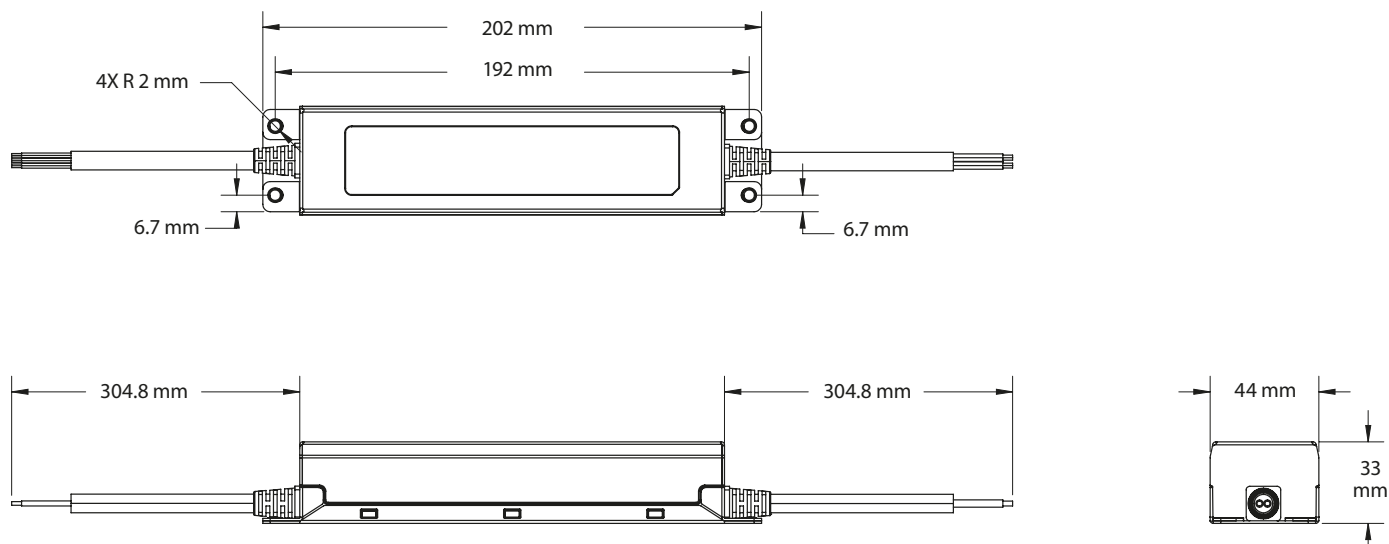
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12 **24**
VDC **VDC**

Dimensions

Weight: 0.45 kg



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